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Listing of Claims

1. (Currently Amended) A syringe for mounting to an injector for injecting fluids into an animal subject, said syringe comprising:

a cylindrical barrel;

a plunger snugly slidable in said cylindrical barrel, said plunger having a rearwardly facing drive ram engaging coupling element thereon in the shape of a rearwardly facing extension, wherein said rearwardly facing extension is knurled at least along the portion of said extension adapted to be within an area enveloped by a coupling mechanism, and said rearwardly facing extension does not extend outside of said cylindrical barrel in at least one position of said plunger; and

a discharge tip in fluid communication with a forward end of said cylindrical barrel.

- 2. (Canceled)
- 3. (Original) The syringe of claim 1 further comprising a conical front wall disposed between said cylindrical barrel and said discharge tip.
- 4. (Previously Amended) The syringe of claim 1 further comprising syringe mating sections positioned in a plane perpendicular to the longitudinal axis of the cylindrical

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barrel, wherein said syringe mating sections facilitate mounting of said syringe to an injector.

- 5. (Original) The syringe of claim 4 wherein said syringe mating sections are arranged so as to align with mating sections disposed on said injector.
- 6. (Original) The syringe of claim 5 wherein said syringe mating sections include a radially outwardly extending annular flange.
- 7. (Canceled)

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8. (Previously Amended) An injector for injecting fluids from a syringe into an animal

subject, comprising;

a housing;

a plunger drive ram bidirectionally movable along an axis and mounted within

said housing;

a motor drivingly coupled to said drive ram to selectively advance and retract

said drive ram along said axis into and out of said housing;

a syringe for mounting to said injector comprising a cylindrical barrel, a plunger

snugly slidable in said cylindrical barrel, said plunger having a rearwardly facing drive

ram engaging coupling element thereon in the shape of a rearwardly facing extension,

wherein no two adjacent transverse cross-sections of said rearwardly facing extension

exhibit discontinuity in area when compared one to another along the portion of said

extension adapted to be within an area enveloped by a coupling mechanism, and said

rearwardly facing extension does not extend outside of said cylindrical barrel in at least

one position of said plunger, and a discharge tip in fluid communication with said

cylindrical barrel; and

a movable face plate used to position a syringe relative to said injector housing

to permit said drive ram to engage and move said plunger within said syringe.

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9. (Previously Amended) The injector of claim 8 further comprising injector mating sections, said syringe further comprising syringe mating sections positioned in a plane

perpendicular to the axis of the body of the syringe and arranged so as to align with the

injector mating sections.

10. (Original) The injector of claim 8, wherein said face plate further comprises a

rotatable lever used for translatory motion of said face plate, said lever movable

between locked and unlocked positions, wherein motion of said lever to said locked

position causes attachment of a syringe to said injector housing by translating said

rearward facing coupling element of said syringe plunger against a coupling mechanism

of said plunger drive ram to facilitate cooperative movement of said syringe plunger and

said plunger drive ram to inject fluids into said animal subject.

11. (Original) The injector of claim 10 wherein movement of said rotatable lever from

said locked to said unlocked position results in translatory movement of said face plate

along a plane perpendicular to the axis of said plunger drive ram to disengage said

rearward facing coupling element of said syringe plunger from a coupling mechanism of

said plunger drive ram.

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12. (Previously Added) A syringe for mounting to an injector for injecting fluids into an animal subject, said syringe comprising:

a cylindrical barrel;

a plunger snugly slidable in said cylindrical barrel, said plunger having a rearwardly facing drive ram engaging coupling element thereon in the shape of a rearwardly facing extension, wherein no two adjacent transverse cross-sections of said rearwardly facing extension exhibit discontinuity in area when compared one to another along the portion of said extension adapted to be within an area enveloped by a coupling mechanism, and said rearwardly facing extension does not extend outside of said cylindrical barrel in at least one position of said plunger; and

a discharge tip in fluid communication with a forward end of said cylindrical barrel.

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13. (New) A syringe for mounting to an injector for injecting fluids into an animal subject, said syringe comprising:

a cylindrical barrel;

a plunger snugly slidable in said cylindrical barrel, said plunger having a rearwardly facing drive ram engaging coupling element thereon in the shape of a rearwardly facing extension, wherein said rearwardly facing extension includes a knurled interior cavity and said rearwardly facing extension does not extend outside of said cylindrical barrel in at least one position of said plunger; and

a discharge tip in fluid communication with a forward end of said cylindrical barrel.